

# SEQUENCE LISTING

<110> Zhou, Ming-Ming

<120> METHODS OF IDENTIFYING MODULATORS OF THE FGF RECEPTOR

<130> 2459-1-002N

<140> UNKNOWN

<141> 2001-01-11

<150> 60/175,867

<151> 2000-01-12

<160> 7

<170> PatentIn Ver. 2.0

<210> 1

<211> 508

<212> PRT

<213> Homo sapien

<400> 1

Met	Gly	Ser	Cys	Cys	Ser	Cys	Pro	Asp	Lys	Asp	Thr	Val	Pro	Asp	Asn
1				5					10					15	

His	Arg	Asn	Lys	Phe	Lys	Val	Ile	Asn	Val	Asp	Asp	Asp	Gly	Asn	Glu
		20					25						30		

Leu	Gly	Ser	Gly	Ile	Met	Glu	Leu	Thr	Asp	Thr	Glu	Leu	Ile	Leu	Tyr
	35						40					45			

Thr	Arg	Lys	Arg	Asp	Ser	Val	Lys	Trp	His	Tyr	Leu	Cys	Leu	Arg	Arg
	50					55					60				

Tyr	Gly	Tyr	Asp	Ser	Asn	Leu	Phe	Ser	Phe	Glu	Ser	Gly	Arg	Arg	Cys
65					70					75					80

Gln	Thr	Gly	Gln	Gly	Ile	Phe	Ala	Phe	Lys	Cys	Ala	Arg	Ala	Glu	Glu
			85						90					95	

Leu	Phe	Asn	Met	Leu	Gln	Glu	Ile	Met	Gln	Asn	Asn	Ser	Ile	Asn	Val
			100					105					110		

Val	Glu	Glu	Pro	Val	Val	Glu	Arg	Asn	Asn	His	Gln	Thr	Glu	Leu	Glu
						115		120				125			

Val Pro Arg Thr Pro Arg Thr Pro Thr Thr Pro Gly Phe Ala Ala Gln  
 130 135 140  
 Asn Leu Pro Asn Gly Tyr Pro Arg Tyr Pro Ser Phe Gly Asp Ala Ser  
 145 150 155 160  
 Ser His Pro Ser Ser Arg His Pro Ser Val Gly Ser Ala Arg Leu Pro  
 165 170 175  
 Ser Val Gly Glu Glu Ser Thr His Pro Leu Leu Val Ala Glu Glu Gln  
 180 185 190  
 Val His Thr Tyr Val Asn Thr Thr Gly Val Gln Glu Glu Arg Lys Asn  
 195 200 205  
 Arg Thr Ser Val His Val Pro Leu Glu Ala Arg Val Ser Asn Ala Glu  
 210 215 220  
 Ser Ser Thr Pro Lys Glu Glu Pro Ser Ser Ile Glu Asp Arg Asp Pro  
 225 230 235 240  
 Gln Ile Leu Leu Glu Pro Glu Gly Val Lys Phe Val Leu Gly Pro Thr  
 245 250 255  
 Pro Val Gln Lys Gln Leu Met Glu Lys Glu Lys Leu Glu Gln Leu Gly  
 260 265 270  
 Arg Asp Gln Val Ser Gly Ser Gly Ala Asn Asn Thr Glu Trp Asp Thr  
 275 280 285  
 Gly Tyr Asp Ser Asp Glu Arg Arg Asp Ala Pro Ser Val Asn Lys Leu  
 290 295 300  
 Val Tyr Glu Asn Ile Asn Gly Leu Ser Ile Pro Ser Ala Ser Gly Val  
 305 310 315 320  
 Arg Arg Gly Arg Leu Thr Ser Thr Ser Thr Ser Asp Thr Gln Asn Ile  
 325 330 335  
 Asn Asn Ser Ala Gln Arg Arg Thr Ala Leu Leu Asn Tyr Glu Asn Leu  
 340 345 350  
 Pro Ser Leu Pro Pro Val Trp Glu Ala Arg Lys Leu Ser Arg Asp Glu  
 355 360 365  
 Asp Asp Asn Leu Gly Pro Lys Thr Pro Ser Leu Asn Gly Tyr His Asn  
 370 375 380

Asn Leu Asp Pro Met His Asn Tyr Val Asn Thr Glu Asn Val Thr Val  
 385 390 395 400

Pro Ala Ser Ala His Lys Ile Glu Tyr Ser Arg Arg Arg Asp Cys Thr  
 405 410 415

Pro Thr Val Phe Asn Phe Asp Ile Arg Arg Pro Ser Leu Glu His Arg  
 420 425 430

Gln Leu Asn Tyr Ile Gln Val Asp Leu Glu Gly Gly Ser Asp Ser Asp  
 435 440 445

Asn Pro Gln Thr Pro Lys Thr Pro Thr Thr Pro Leu Pro Gln Thr Pro  
 450 455 460

Thr Arg Arg Thr Glu Leu Tyr Ala Val Ile Asp Ile Glu Arg Thr Ala  
 465 470 475 480

Ala Met Ser Asn Leu Gln Lys Ala Leu Pro Arg Asp Asp Gly Thr Ser  
 485 490 495

Arg Lys Thr Arg His Asn Ser Thr Asp Leu Pro Met  
 500 505

<210> 2

<211> 822

<212> PRT

<213> Mouse

<400> 2

Met Trp Gly Trp Lys Cys Leu Leu Phe Trp Ala Val Leu Val Thr Ala  
 1 5 10 15

Thr Leu Cys Thr Ala Arg Pro Ala Pro Thr Leu Pro Glu Gln Ala Gln  
 20 25 30

Pro Trp Gly Val Pro Val Glu Val Glu Ser Leu Leu Val His Pro Gly  
 35 40 45

Asp Leu Leu Gln Leu Arg Cys Arg Leu Arg Asp Asp Val Gln Ser Ile  
 50 55 60

Asn Trp Leu Arg Asp Gly Val Gln Leu Val Glu Ser Asn Arg Thr Arg  
 65 70 75 80

Ile Thr Gly Glu Glu Val Glu Val Arg Asp Ser Ile Pro Ala Asp Ser  
 85 90 95

Gly Leu Tyr Ala Cys Val Thr Ser Ser Pro Ser Gly Ser Asp Thr Thr  
 100 105 110  
 Tyr Phe Ser Val Asn Val Ser Asp Ala Leu Pro Ser Ser Glu Asp Asp  
 115 120 125  
 Asp Asp Asp Asp Asp Ser Ser Ser Glu Glu Lys Glu Thr Asp Asn Thr  
 130 135 140  
 Lys Pro Asn Arg Arg Pro Val Ala Pro Tyr Trp Thr Ser Pro Glu Lys  
 145 150 155 160  
 Met Glu Lys Lys Leu His Ala Val Pro Ala Ala Lys Thr Val Lys Phe  
 165 170 175  
 Lys Cys Pro Ser Ser Gly Thr Pro Asn Pro Thr Leu Arg Trp Leu Lys  
 180 185 190  
 Asn Gly Lys Glu Phe Lys Pro Asp His Arg Ile Gly Gly Tyr Lys Val  
 195 200 205  
 Arg Tyr Ala Thr Trp Ser Ile Ile Met Asp Ser Val Val Pro Ser Asp  
 210 215 220  
 Lys Gly Asn Tyr Thr Cys Ile Val Glu Asn Glu Tyr Gly Ser Ile Asn  
 225 230 235 240  
 His Thr Tyr Gln Leu Asp Val Val Glu Arg Ser Pro His Arg Pro Ile  
 245 250 255  
 Leu Gln Ala Gly Leu Pro Ala Asn Glu Thr Val Ala Leu Gly Ser Asn  
 260 265 270  
 Val Glu Phe Met Cys Lys Val Tyr Ser Asp Pro Gln Pro His Ile Gln  
 275 280 285  
 Trp Leu Lys His Ile Glu Val Asn Gly Ser Lys Ile Gly Pro Asp Asn  
 290 295 300  
 Leu Pro Tyr Val Gln Ile Leu Lys Thr Ala Gly Val Asn Thr Thr Asp  
 305 310 315 320  
 Lys Glu Met Glu Val Leu His Leu Arg Asn Val Ser Phe Glu Asp Ala  
 325 330 335  
 Gly Glu Tyr Thr Cys Leu Ala Gly Asn Ser Ile Gly Leu Ser His His  
 340 345 350

Ser Ala Trp Leu Thr Val Leu Glu Ala Leu Glu Glu Arg Pro Ala Val  
 355 360 365

Met Thr Ser Pro Leu Tyr Leu Glu Ile Ile Ile Tyr Cys Thr Gly Ala  
 370 375 380

Phe Leu Ile Ser Cys Met Leu Gly Ser Val Ile Ile Tyr Lys Met Lys  
 385 390 395 400

Ser Gly Thr Lys Lys Ser Asp Phe His Ser Gln Met Ala Val His Lys  
 405 410 415

Leu Ala Lys Ser Ile Pro Leu Arg Arg Gln Val Thr Val Ser Ala Asp  
 420 425 430

Ser Ser Ala Ser Met Asn Ser Gly Val Leu Leu Val Arg Pro Ser Arg  
 435 440 445

Leu Ser Ser Ser Gly Thr Pro Met Pro Ala Gly Val Ser Glu Tyr Glu  
 450 455 460

Leu Pro Glu Asp Pro Arg Trp Glu Leu Pro Arg Asp Arg Leu Val Leu  
 465 470 475 480

Gly Lys Pro Leu Gly Glu Gly Cys Phe Gly Gln Val Val Leu Ala Glu  
 485 490 495

Ala Ile Gly Leu Asp Lys Asp Lys Pro Asn Arg Val Thr Lys Val Ala  
 500 505 510

Val Lys Met Leu Lys Ser Asp Ala Thr Glu Lys Asp Leu Ser Asp Leu  
 515 520 525

Ile Ser Glu Met Glu Met Met Lys Met Ile Gly Lys His Lys Asn Ile  
 530 535 540

Ile Asn Leu Leu Gly Ala Cys Thr Gln Asp Gly Pro Leu Tyr Val Ile  
 545 550 555 560

Val Glu Tyr Ala Ser Lys Gly Asn Leu Arg Glu Tyr Leu Gln Ala Arg  
 565 570 575

Arg Pro Pro Gly Leu Glu Tyr Cys Tyr Asn Pro Ser His Asn Pro Glu  
 580 585 590

Glu Gln Leu Ser Ser Lys Asp Leu Val Ser Cys Ala Tyr Gln Val Ala  
 595 600 605

Arg Gly Met Glu Tyr Leu Ala Ser Lys Lys Cys Ile His Arg Asp Leu  
610 615 620

Ala Ala Arg Asn Val Leu Val Thr Glu Asp Asn Val Met Lys Ile Ala  
625 630 635 640

Asp Phe Gly Leu Ala Arg Asp Ile His His Ile Asp Tyr Tyr Lys Lys  
645 650 655

Thr Thr Asn Gly Arg Leu Pro Val Lys Trp Met Ala Pro Glu Ala Leu  
660 665 670

Phe Asp Arg Ile Tyr Thr His Gln Ser Asp Val Trp Ser Phe Gly Val  
675 680 685

Leu Leu Trp Glu Ile Phe Thr Leu Gly Gly Ser Pro Tyr Pro Gly Val  
690 695 700

Pro Val Glu Glu Leu Phe Lys Leu Leu Lys Glu Gly His Arg Met Asp  
705 710 715 720

Lys Pro Ser Asn Cys Thr Asn Glu Leu Tyr Met Met Met Arg Asp Cys  
725 730 735

Trp His Ala Val Pro Ser Gln Arg Pro Thr Phe Lys Gln Leu Val Glu  
740 745 750

Asp Leu Asp Arg Ile Val Ala Leu Thr Ser Ser Gln Glu Tyr Leu Asp  
755 760 765

Leu Ser Ile Pro Leu Asp Gln Tyr Ser Pro Ser Phe Pro Asp Thr Arg  
770 775 780

Ser Ser Thr Cys Ser Ser Gly Glu Asp Ser Val Phe Ser His Glu Pro  
785 790 795 800

Leu Pro Glu Glu Pro Cys Leu Pro Arg His Pro Thr Gln Leu Ala Asn  
805 810 815

Ser Gly Leu Lys Arg Arg  
820

<210> 3

<211> 22

<212> PRT

<213> Mouse

<400> 3

His Ser Gln Met Ala Val His Lys Leu Ala Lys Ser Ile Pro Leu Arg  
1 5 10 15

Arg Gln Val Thr Val Ser  
20

<210> 4

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:  
tyrosine-phosphorylated peptide

<220>

<223> X = phosphotyrosine

<400> 4

Leu Val Ile Ala Gly Asn Pro Ala Xaa Arg Ser  
1 5 10

<210> 5

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: consensus

<220>

<223> Xaa can be any amino acid

<400> 5

Val Xaa Xaa Leu Xaa Xaa Xaa Ile Xaa Leu Xaa Arg Xaa Val Xaa Val  
1 5 10 15

<210> 6

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: motif

<220>

<223> X in the 3rd position= any amino acid

<220>

<223> X in the 4th position= phosphotyrosine

<400> 6

Asn Pro Xaa Xaa

1

<210> 7

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
peptide derived from TrkA receptor

<400> 7

His Ile Ile Glu Asn Pro Gln Xaa Phe Ser Asp Ala

1

5

10